

The Tool Engineer

1952

Annual Index of Editorial Contents

**VOLUMES XXVIII and XXIX
JANUARY THROUGH DECEMBER, 1952**

Author Index

- Adams, Chester M. Applications and Advantages of Cast-Alloy Cutting Tools. Oct. p. 37
- Anderson, W. V. Improving Dial Visibility. Oct. p. 64, Gadget
- Balsells, Peter. Die Aligner. Nov. p. 48, Gadget
- Balsells, Peter. Tool Steels. Dec. p. 44, Gadget
- Barker, Fred. Drill Extension Adapter. May, p. 68, Gadget
- Bean, Nevin L. Influence of the Tool Engineer on Machine Tool Design. Mar. p. 102
- Boll, W. S. Cam Follower. July, p. 62, Gadget
- Brown, Clement F. Economic Principles of Cost Reduction through Tooling. Jan. p. 45
- Brown, Tom. Locking Morse Tapers. Apr. p. 65, Gadget
- Brown, Tom. Holding a Drill Press Vise. July p. 61, Gadget
- Butrick, Frank M. Jr. Special Gage, May p. 68, Gadget
- Carothers, J. A. Hermaphrodite Calipers. Sept. p. 68, Gadget
- Chase, Herbert. Skip Welding Ring Gear to Flywheel. Nov. p. 63
- Clark, G. W. K. Determining Number of Die Cavities. July p. 40
- Conti, A. R. and Robert Innes. How to Save Diamonds. May, p. 45
- Cory, Charles R. Die Design for Metal Drawing. May p. 48
- Crosby, Joseph P. Foreign Machine Tool Shows. Dec. p. 55
- Dahl, Hjalmar. Universal Clamp. Oct. p. 63, Gadget
- Dahl, Hjalmar. Four-Spindle Drill. Sept. p. 67, Gadget
- Dahl, Hjalmar. Compound Die. Nov. p. 48
- Daugherty, Jesse. Contour Milling Aircraft Skins from Rolled Aluminum Stock. June p. 47
- Davey, John S. Strength of Bolted Assemblies. May p. 41; June p. 58
- DeAngelo, George B. Scissors Gage. Oct. p. 63, Gadget
- Douglas, Keith. Centering Shafts. Apr. p. 66, Gadget
- Doyle, Lawrence E. An Analysis of Cost Estimating Principles and Practices. May, p. 37; June p. 43; July p. 55; Aug. p. 61
- Druan, E. J., Jr. Punching with a Shear. June p. 67, Gadget
- Druan, E. J., Jr. Clock Spring Stresses. Dec. p. 43, Gadget
- Druan, E. J., Jr. Rack for Sheet Steel. Sept. p. 68, Gadget
- Faust, Charles L. and William H. Safranek. Electroforming Produces Intricate Shapes to Close Tolerances. Apr. p. 37
- Fleming, Robert L. A Thesis on Production Planning in the Automation Age. Mar. p. 110
- Fletcher, Stewart G. Selection and Treatment of Die Steels. Apr. p. 41; May p. 52
- Frommer, H. G. Flux Recovery Unit. Apr. p. 66, Gadget
- Gabriele, Anthony. Staking Die. June p. 67, Gadget
- Gaillard, John. Relation of the Tool Engineer to Company Standards. Apr. p. 60
- Gauerke, Martin. Snap Ring Expander. Sept. p. 68, Gadget
- Gay, Roger E. The Part of Standards in Better Customer Relations. May p. 55
- Goodwin, Lew W. Contour Developer for Sheet Metal Products. Dec. p. 48
- Gourlie, William H. Fixed Gage Standards and Practice. June p. 40
- Graham, J. D. Heat-treating and Machining of Boron Steels. July p. 46; Aug. p. 58
- Greve, John W. Metal Stampings—produced with latest handling methods at new Ford plant. Dec. p. 37
- Green, R. A. and W. E. Moody. Automatic Size Control in Finish Grinding. Sept. p. 37; Oct. p. 53
- Guilbert, E. Welder Curtain. May p. 68, Gadget
- Guy, M. H. Trimming Device. Nov. p. 47, Gadget
- Hale, Inmon. Quick Acting Clamp. Feb. p. 50, Gadget
- Hanna, John C. Pneumatic and Hydraulic Drives. Aug. p. 55; Sept. p. 58
- Haugk, Charles A. Automatic Coolant Pump Switch. June p. 68, Gadget
- Haugk, Charles A. Wire Mockup. July p. 61, Gadget
- Herold, Richard. Shell Molding by the Croning Process. June p. 53
- Hooley, George. Spring Loaded Center. July p. 61, Gadget
- Hu, K. C. Pawl and Ratchet. Aug. p. 68, Gadget
- Hu, K. C. Horn Die Indexing. Sept. p. 67, Gadget
- Innes, Robert, A. R. Conti and, How to Save Diamonds. May p. 45
- Isetts, Roger. Indicator Extension. July p. 62, Gadget
- Jania, Zbigniew. Analysis of the Wedge Jack. Sept. p. 56
- Johnson, Richard F. Tap Holder. Aug. p. 68, Gadget
- Johnson, William W. Simplifying Trigonometric Calculations. (Designing for Efficiency) June p. 57
- Judkins, Malcolm F. Electro-Mechanical Machining of Hard Materials. Apr. p. 48
- Karash, Joseph I. Drill Jig Design for Secondary Operations. Apr. p. 45; May p. 58
- Kauffman, David. Wet Grinding Saves Diamonds. Oct. p. 43
- Keever, H. K., Norris M. Perris and, Using Standard Data for Tool Estimates. Jan. p. 54
- Keller, Henry G. Mechanical Variable-Speed Drives. Sept. p. 41
- Kimmel, Robert T. Cutting Fluids Selection and Application. Jan. p. 61
- Kimmel, Robert T. Tool Engineering as an Investment. Mar. p. 106
- Kimmel, Robert T. Electronic Controls—Machine Tool Applications. May p. 69
- Kimmel, Robert T. Automatic Gaging for In-Line Production. July p. 63
- Kimmel, Robert T. Progressive Dies Tools for Mass Production. Sept. p. 69
- Kimmel, Robert T. Drilling Machine Classification. Nov. p. 69
- King, Joseph E. Job-Tests Aid Production Personnel. Sept. p. 45; Oct. p. 61
- Lee, Lloyd L. Tooling with Standard Drill Jigs. Aug. p. 49
- Leeds, Earl P. Milling Product Analysis and Equipment Selection. Feb. p. 37
- Lepsöe, L. M. Cutting-off Tool. Apr. p. 66, Gadget
- Lewis, C. R. and A. F. Underwood. New Precision Reference Specimens for Surface Finish Control. July p. 36
- Mahin, W. E. Industrial Development Depends on Cooperative Research. Nov. p. 49
- Majeske, Leonard M. Nomograph for Determining Maximum Tensile Stress in Snap Rings. Feb. p. 49
- Majeske, Leonard M. Nomograph for Determining the Period of a Physical Pendulum (Designing for Efficiency) July p. 45
- Majeske, Leonard M. Nomogram for Determining Taper per Foot and Angle of Taper. Oct. p. 44
- Mandeville, A. E. and J. Meehan. Precision Grinding of Cylindrical Parts. June p. 37
- Mather, Daniel L. Forming Die. Jan. p. 60, Gadget
- McLaughlin, Russell. Carbide Tools for Job Lot Production. Jan. p. 52
- Meehan, J., A. E. Mandeville and, Precision Grinding of Cylindrical Parts. June p. 37
- Mery, Robert. Automatically Adjustable Vise Jaws. Aug. p. 67, Gadget
- Miller, H. H. Increasing Tool Life and Performance. Nov. p. 37
- Moody, W. E., R. A. Green and, Automatic Size Control in Finish Grinding. Sept. p. 37; Oct. p. 53
- Morgan, C. R. Multiple Screw Machine Tooling and Methods. July p. 51
- Muir, Gilbert P. DeSoto Division: A Text on Automation. Feb. p. 51
- Muir, Gilbert P. International Harvester: Dollars from Manufacturing Research. Apr. p. 67
- Muir, Gilbert P. Gunnison Homes: New Thinking in an Old Industry. Aug. p. 69
- Muir, Gilbert P. Westinghouse: Engineering on Call. Oct. p. 65
- Murray, A. F. Materials Handling. Mar. p. 123
- Nelson, George A. Form Tool Radii. Nov. p. 48, Gadget
- Newcomer, J. W. Saw Holder. June p. 68, Gadget
- Orban, John E., Jr. Improved Stops and Pushers. Feb. p. 50, Gadget
- Palmer, Roy. Simplified Machine Shop Control. July p. 49
- Peragine, Frank J. Split Type Casting Support. July p. 62, Gadget
- Perris, Norris M. and H. K. Keever. Using Standard Data for Tool Estimates. Jan. p. 54
- Pollak, Joseph E. Locating Holes in Punches. June p. 68, Gadget
- Psenka, Joseph A. Broaching of Internal Gears. July p. 41; Aug. p. 46
- Quist, W. W. Production Tapping Arrangement. Apr. p. 65, Gadget
- Riley, F. E. Improving Dial Visibility. Oct. p. 64
- Rowan, C. H. Feeler Switch. Dec. p. 43, Gadget
- Rylander, Andrew E. Straight Drilling of Deep Holes. Sept. p. 49
- Safranek, William H., Charles L. Faust and, Electroforming Produces Intricate Shapes to Close Tolerances. Apr. p. 37
- Schlesinger, Klaus L. Diamond Dresser Point Protectors. Jan. p. 60, Gadget
- Schmidt, A. O. Metal Cutting. Mar. p. 126
- Schmidt, A. O. Metal Cutting Temperatures and Tool Wear. July p. 33; Aug. p. 51
- Schultz, Richard S. How to Appraise and Select Salesmen. Feb. p. 41
- Schumacher, G. F. Tooling for Toys. Dec. p. 63
- Schwartz, N. Regrinding End Mills. Aug. p. 68, Gadget
- Schwartz, N. Scrap Ejector. Oct. p. 63, Gadget
- Shainin, Dorian. Quality Control of Job Lots. Jan. p. 35; Feb. p. 46
- Small, Louis and Keith Symon. Round Work Correction for Rockwell Hardness. Aug. p. 41
- Smith, Ben D. Machine Tools. Mar. p. 114
- Smithgall, Harry M. The Press Brake. Dec. p. 57
- Spencer, Lester F. Tool Materials. Mar. p. 129

Spicer, Lester F. Basic Forming Techniques for the Copper Base Alloys. Apr. p. 56; May p. 62; June p. 61
 Spicer, C. G. Scrap Chopper. Feb. p. 50, Gadget
 Starr, John. Assembly Tooling. Mar. p. 117
 Starr, John. Forming Tools for Magnesium Alloys. June p. 69
 Starr, John. Criteria for Efficiency (Designing for Efficiency) Oct. p. 51
 Starr, John. Vise Jaws Reduce Stretching Costs. Nov. p. 55
 Stern, Lorraine E. Vacuum Testing on Production Lines. Dec. p. 60
 Stewart, H. L. Power Operated Shell Chucking Equipment. Apr. p. 51
 Strasser, Federico. Taper Pins for Punch Holding (Designing for Efficiency) Feb. p. 45
 Strasser, Federico. Multi-Purpose Dies. Nov. p. 47, Gadget
 Strasser, Federico. Plastic Mold Design. Dec. p. 44, Gadget
 Streib, Dr. James V. Statistical Evaluation of Rational and Stratified Methods of Sampling. Aug. p. 37; Sept. p. 61; Oct. p. 55; Nov. p. 56; Dec. p. 70
 Syron, Keith, Louis Small and. Round Work Correction for Rockwell Hardness. Aug. p. 41

Tilles, S. Simplified Clamping Design (TED) Nov. p. 67
 Todd, A. W. Finish Grinding Troubles and Remedies. Oct. p. 40; Nov. p. 65
 Underwood, A. F., C. R. Lewis and. New Precision Reference Specimens for Surface Finish Control. July p. 36
 Victory, Frederick C. Precision Hole Locating Methods. Sept. p. 53; Oct. p. 48
 Wevers, F. C. Centering Shafts. Aug. p. 67, Gadget
 Whitley, George. Effective Tool Control for the Small Shop. Jan. p. 51
 Willson, R. T. Job Lot Materials Handling Procedures. Jan. p. 41
 Winter, P. H. Radius Groove Forming. Jan. p. 60, Gadget
 Wood, Cornelius M. Machining Brown & Sharpe Cams. June p. 67, Gadget
 Zamis, A. Right and Wrong of Hob Sharpening. Jan. p. 47

Subject Index

Assemblies, bolted, strength of, May p. 41; June p. 58
 Automation, Feb. p. 51; Mar. p. 110; Dec. p. 35
 Bearings, ball and roller, Jan. p. 58; Feb. p. 69; Apr. p. 63; May p. 66; June p. 65; July p. 59; Aug. p. 65
 Bolts, assemblies, May p. 51; June p. 58
 Boring, jig, hole locating, Sept. p. 53; Oct. p. 48
 Broaching, blind, Nov. p. 68
 Broaching, internal gears, July p. 41; Aug. p. 46
 Calipers, Sept. p. 68
 Cam follower, July p. 62
 Cams, machining, June p. 67
 Castings, shell molding, June p. 53
 Centers, July p. 61
 Chucks, power-operated, Apr. p. 51
 Clamps
 classification of, Nov. p. 67
 quick-acting, Feb. p. 50
 universal, Oct. p. 63
 Controls
 mechanical v-s drives, Sept. p. 41
 switch, pump, June p. 68
 Conveyors, Jan. p. 41; Mar. p. 123
 Copper alloys, forming, Apr. p. 56; May p. 61
 Cost control, Jan. p. 45; Feb. p. 37; May p. 37; June p. 43; July p. 55; Aug. p. 61
 machine shop, July p. 49
 Cutting fluids, Jan. p. 61
 Design
 clamps, Nov. p. 67
 dial visibility, Oct. p. 64
 dies, metal drawing, May p. 48
 dies, progressive, Sept. p. 69
 hardness correction factor, Aug. p. 41
 machine tools, Mar. p. 102
 pendulum period, July p. 45
 tapers, Oct. p. 44
 transposing coordinates, June p. 57
 wedge jack, Sept. p. 56
 Diamonds, Jan. p. 60
 pin locator, Dec. p. 45
 Diamond wheels, May p. 45
 wet grinding, Oct. p. 45
 Dies
 compound, Nov. p. 48
 design, June p. 68
 forming, Jan. p. 60
 hole locating, Sept. p. 67
 metal drawing, May p. 48
 multiple cavity, July p. 40
 multipurpose, Nov. p. 47
 progressive, Sept. p. 69
 pushers, Feb. p. 50
 scrap chopper, Feb. p. 50
 scrap ejector, Oct. p. 63
 staking, June p. 67
 stops, Feb. p. 50
 strippers, supporting, Oct. p. 64
 taper pins, Feb. p. 45
 Drilling
 casting support, July p. 62
 deep hole, Sept. p. 49
 extension adapter, May p. 68
 four spindle, Sept. p. 67
 jigs, Apr. p. 45; May p. 58
 vise holders, July p. 61
 Drives
 hydraulic and pneumatic, Aug. p. 55; Sept. p. 58
 mechanical variable speed, Sept. p. 41

Electroforming, Apr. p. 37
 Electromechanical machining, Apr. p. 48
 Electronics, May p. 69
 Fasteners, bolted assemblies, May p. 41; June p. 58
 Fixtures, Mar. p. 117
 Forming, Apr. p. 56; May p. 61
 magnesium alloys, June p. 69
 Gages
 automatic, July p. 63
 indicator extension, July p. 62
 mobile laboratory, Nov. p. 62
 scissors, Oct. p. 63
 special, May p. 68
 fixed standards, June p. 40
 Gears, broaching, July p. 41; Aug. p. 46
 Grinding
 abrasive belt, June p. 51;
 cylindrical parts, June p. 37
 diamond wheels, May p. 45; Oct. p. 45
 end mills, Aug. p. 68
 hobs, Jan. p. 47
 hole locating, Sept. p. 53; Oct. p. 48
 size control, Sept. p. 37; Oct. p. 53
 troubles and remedies, Oct. p. 40; Nov. p. 65
 Heat Treating
 flame hardening, Dec. p. 47
 steel, boron, July p. 46; Aug. p. 58
 steel, tool, Apr. p. 41; May p. 52
 Hobs, Jan. p. 47
 Hole locating, June p. 68; Sept. p. 53; Oct. p. 48
 Incentives, Mar. p. 110
 Jigs, Nov. p. 47
 drill, Apr. p. 45; May p. 58; Aug. p. 49
 Job Lot Production
 materials handling, Jan. p. 41
 quality control, Jan. p. 35; Feb. p. 46
 tools, Jan. p. 52
 Machine tools, Mar. p. 102; Mar. p. 114; Mar. p. 126
 automatic, Feb. p. 51
 controls, electronic, May p. 69
 drilling machines, Nov. p. 69
 foreign, Dec. p. 55
 grinders, automatic, Sept. p. 37; Oct. p. 53
 presses, Nov. p. 61; Dec. p. 57
 presses, operation of, Dec. p. 57
 Magnesium alloys, forming, June p. 69
 Materials handling, Jan. p. 41; Mar. p. 123
 storage rack, Sept. p. 68
 Metal drawing, dies, May p. 48
 Milling, Feb. p. 37; Mar. p. 126
 aluminum, June p. 47
 cam follower, July p. 62
 contour, June p. 47
 Mock-ups, Dec. p. 48
 Models, July p. 61
 Molds, plaster, Dec. p. 48
 Personnel, selection of, Feb. p. 41; Sept. p. 45; Oct. p. 61
 Plant layout, Mar. p. 123
 Production planning, Feb. p. 37; Feb. p. 51; Mar. p. 96; Mar. p. 110; Mar. p. 123; Apr. p. 67; Aug. p. 69; Dec. p. 63
 machine shop, July p. 49
 scheduling, Oct. p. 51
 Punches, taper pins, Feb. p. 45
 Punching, June p. 67

Quality Control, Aug. p. 37; Sept. p. 61; Oct. p. 55; Nov. p. 56; Dec. p. 70
 job lots, Jan. p. 35; Feb. p. 46
 Research
 cooperative, Nov. p. 49
 tool engineering, Mar. p. 106; Mar. p. 110; Apr. p. 67; Oct. p. 65
 tool failure, Nov. p. 37
 tool wear, July p. 33; Aug. p. 51
 Scrap chopper, Feb. p. 50
 Scrap disposal, Dec. p. 37
 Scrap ejector, Oct. p. 63
 Screw machines, tooling, July p. 51
 Shafts, centering, Apr. p. 66; Aug. p. 67
 Shearing, June p. 67
 Shell molding, June p. 53
 Snap ring expander, Sept. p. 68
 Snap rings, tensile strength, Feb. p. 49
 Stamping, Dec. p. 37
 Standard Machine Data, Jan. p. 54; May p. 37; June p. 43; July p. 55; Aug. p. 61
 Standards, Apr. p. 60; May p. 55
 fixed gage, June p. 40
 surface finish, July p. 36
 Steel, boron, machining and heat treating, July p. 46; Aug. p. 58
 Steel, tool, heat treatment and selection of, Apr. p. 41; May p. 52
 Strippers, supporting, Oct. p. 64
 Surface finish, July p. 36
 Taper pins, Feb. p. 45
 Tapers
 Design, Oct. p. 44
 locking, morse, Apr. p. 65
 Tapping, Apr. p. 65
 Testing, vacuum, Dec. p. 60
 Tolerances, bearings, Jan. p. 58; Feb. p. 69; Apr. p. 63; May p. 66; June p. 65; July p. 59; Aug. p. 65
 Tool Engineering, Mar. p. 102; Mar. p. 114; Apr. p. 60; Aug. p. 69; Dec. p. 63
 research, Mar. p. 106; Apr. p. 67; Oct. p. 65
 Tool holders
 saws, June p. 68
 taps, Aug. p. 68
 Tooling, Jan. p. 45; Feb. p. 51; Mar. p. 96; Mar. p. 117
 jigs, standard, Aug. p. 49
 screw machines, July p. 51
 Tools
 carbide, Jan. p. 52; Mar. p. 129; Nov. p. 37
 cast-alloy, Oct. p. 37
 control system, Jan. p. 51; Nov. p. 37
 cost estimates, Jan. p. 54
 cut-off, Apr. p. 66
 cutting speeds, Nov. p. 37
 diamond wheels, Jan. p. 60; May p. 45
 end mills, regrinding, Aug. p. 68
 form, radius, Jan. p. 60; Nov. p. 48
 hobs, sharpening, Jan. p. 47
 Trucks, industrial, Jan. p. 41; Mar. p. 123
 Turbine, blades, grinding, June p. 51
 Vacuum metallizing, Dec. p. 63
 Vise jaws, Nov. p. 55
 Vises, automatic, Aug. p. 67
 Welding, Nov. p. 63
 flux recovery, Apr. p. 66
 gun carriage, Dec. p. 52
 positioning device, Aug. p. 68
 safety device, May p. 68
 thin stainless, Dec. p. 54